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MICROSURGICAL TRANSPLANTATION RESEARCH FOUNDATION SA--ETC F/G 6/5  
THE FUNCTIONAL RETURN OF TISSUES TRANSPLANTED ON EXTENDED NEURO--ETC(U)  
1979 N00014-76-C-0486

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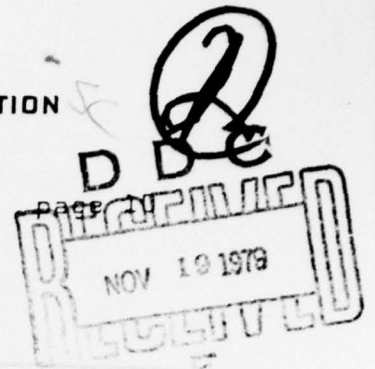
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LEVEL II

DATA BANK ABSTRACT SHEET



Title of Research;

6 The Functional Return of Tissues Transplanted on Extended Neurovascular Pedicles, Plus (P00001), the Control of vascular spasm, Perfusion Problems and Patency Rates in Autogenous, Homogenous and Synthetic Microvascular Segmental Grafts.

Period of Support;

4/01/79 through 3/31/80

12) 5

Abstract of work during past year describing most significant research accomplishments. (Note; Do not exceed space allowed)

11) 1979

The numerous experimental projects completed and under study under the contract have continued to generate valuable information which has been transferred directly to the clinical field. The skeletal muscle model in the Rhesus monkey has now been transferred to man with successful transplantation of a thigh muscle to the lower leg, on an extended neurovascular pedicle. Further application of this principal to the upper extremity are limitless. Microvascular autogenous grafts are now used routinely by our replantation team on a weekly basis to salvage avulsed and crushed parts. Studies on the modification of vascular spasm and the monitoring of microblood flow are under study and will further the successful clinical transplantation and replantation of tissue. The evaluation of nerve functional return, both sensory and motor in these successful clinical cases is now possible.

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Rept. for 1 Apr 79-31 Mar 80.

Bibliography of Publications and Reports: (use additional sheet if Necessary)

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13. The use of hydrozychloroquine as a vasoplegic agent, Shah, K., Buncke, H., Report complete, submitted for publication to the *Journal of Microsurgery*.
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28. Monitoring microvascular anastomotic patency with micro-optical plethysmography- in progress. Cline, C., Buncke, H.J., Finseth, F.
29. Xenon washout analysis of chronic arterial dilating drugs-in progress. Hendle, P., Buncke, H.J., finseth, F.
30. Microanatomical study of rib blood supply-in progress. Hendle, P. Finseth, F., Buncke, H.J.
31. Monitoring of blood flow in transplanted and replanted tissues with plography-hydrogen wash-out. in progress, Hendle, P., Buncke, H.J., Finseth, F.
32. Modification of microsurgical forceps and clamp design-in progress Hendle, P., Buncke, H.J.

Decision for	THIS GRANT	UNO TAB	Unannounced	Notification	by	Notification/ Availability Codes	st	special	Availability and/or	A
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10. Traction avulsion injuries of the upper extremity, in Symposium on difficult Hand problems. Edited by Steichen and Strickland, C.V. Mosby & co. in press
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18. Microvascular tissue transplantation and replantation-Educational movie, Certificate of merit, Annual medical film festival, Mill Valley Ca. 1978